

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant	:	Hansen, et al.
App. No.	:	10/561,363
Filed	:	December 19, 2005
For	:	METHODOLOGIES FOR IMPROVING THE QUALITY OF MEAT, HEALTH STATUS OF ANIMALS AND IMPACT ON ENVIRONMENT
Examiner	:	Unknown

ESTABLISHMENT OF RIGHT OF ASSIGNEE TO TAKE ACTION  
AND  
REVOCATION AND POWER OF ATTORNEY

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

The undersigned is empowered to act on behalf of the assignees below (the "Assignees"). True copies of the original Assignments of the above-captioned application from the inventors to the present Assignees are attached hereto. These Assignments represent the entire chain of title of this invention from the Inventors to the Assignees.

I declare that all statements made herein are true, and that all statements made upon information and belief are believed to be true, and further, that these statements were made with the knowledge that willful, false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001, and that willful, false statements may jeopardize the validity of the application, or any patent issuing thereon.

The undersigned hereby revoke any previous powers of attorney in the subject application, and hereby appoints the registrants of Knobbe, Martens, Olson & Bear, LLP,

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Filed : December 19, 2005

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**Customer No. 20,995**, as its attorneys with full power of substitution and revocation to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected herewith. This appointment is to be to the exclusion of the inventor(s) and his attorney(s) in accordance with the provisions of 37 C.F.R. § 3.71.

Please use **Customer No. 20,995** for all communications.

Danmarks JordbrugsForskning  
(Danish Institute of Agricultural Sciences)

Dated: 28 DECEMBER 2006

By: M. F. Johansen

Title: HEAD OF SECRETARIAT

Address: Blichers Allé  
P.O. Box 50  
DK-8830 Tjele  
Denmark

Dated: \_\_\_\_\_

\_\_\_\_\_  
Derek Byrne  
Tagensvej 88, 3.th  
DK-2200 København N  
Denmark

Dated: \_\_\_\_\_

\_\_\_\_\_  
Allan Roepstorff  
Damhus Boulevard 88  
DK-2200 København N  
Denmark

Dated: \_\_\_\_\_

\_\_\_\_\_  
Stig Milan Thamsborg  
Ledreborg Allé 20  
DK-2820 Gentofte  
Denmark

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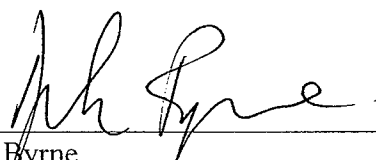
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By: \_\_\_\_\_

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Address: Blichers Allé  
P.O. Box 50  
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Denmark

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\_\_\_\_\_  
Derek Byrne  
Tagensvej 88, 3.th  
DK-2200 København N  
Denmark

Dated: \_\_\_\_\_

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Allan Roepstorff  
Damhus Boulevard 88  
~~DK-2200 København N~~ DK-2610 Rødovre  
Denmark

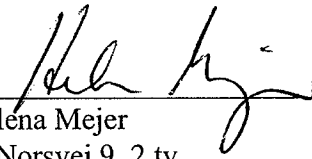
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Stig Milan Thamsborg  
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Dated: 27 DECEMBER 2006

  
\_\_\_\_\_  
Helena Mejer  
Norsvej 9, 2 tv  
DK-1916 Frederiksberg C  
Denmark

Dated: \_\_\_\_\_

\_\_\_\_\_  
Laurits Lydehøj Hansen  
Vingevej 33, Ørum  
DK-8830 Tjele  
Denmark

Power of Attorney for Assignment C


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**PATENT**

Application No.: 10/561,363

Filing Date: December 19, 2005

Client Code: HOIB2.001APC

Page 1 of 2

**ASSIGNMENT and CONFIRMATION OF ASSIGNMENT**

WHEREAS, Den Kongelige Veterinaer-og Landbohøjskole (The Royal Veterinary and Agricultural University) (hereinafter KVL), a Danish educational institution, with its principal place of business at Bülow'svej 17, DK-1870 Frederiksberg C, Denmark became, by way of assignment, a joint owner with Danmarks JordbrugsForskning (Danish Institute of Agricultural Sciences) (hereinafter DJF), a Danish public sector research institution, with its principal place of business at Blichers Allé, P.O. Box 50, DK-8830 Tjele, Denmark; of patent rights as described in certain patent applications titled: METHODOLOGIES FOR IMPROVING THE QUALITY OF MEAT, HEALTH STATUS OF ANIMALS AND IMPACT ON ENVIRONMENT; namely, an application for Letters Patent in the United States, Application Serial No. 10/561,363, filed on December 19, 2005; an International Application (PCT/EP2004/050355, filed on March 24, 2004); Danish Provisional Applications (PA 2003 00453, filed March 25, 2003, and PA 2003 01154, filed August 11, 2003); and a U.S. Provisional Application (60/494,082, filed August 12, 2003);

AND WHEREAS, Derek Byrne, an Irish citizen, residing at Tagensvej 88, 3.th, DK-2200 København N, Denmark; Allan Roepstorff, a Danish citizen, residing at Damhus Boulevard 88, DK-2610 Rødovre, Denmark; Stig Milan Thamsborg, a Danish citizen, residing at Ledreborg Allé 20, DK-2820 Gentofte, Denmark; and Helena Mejer, a Danish citizen, residing at Norsvej 9, 2 tv, DK-1916 Frederiksberg C, Denmark (collectively hereinafter "ASSIGNEES"), desire to jointly acquire that portion of the right, title, and interest, heretofore pertaining to KVL, in and to the said improvements and the said Applications, thereby becoming joint owners, with DJF, of the entire right, title, and interest, in and to the said improvements and the said Applications:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to KVL in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, KVL does hereby acknowledge and now confirms that on ~~insert date of KVL letter assigning to these four inventors~~ <sup>September 25, 2005</sup> it sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto the said ASSIGNEES, their successors, legal representatives and assigns, its entire portion of the right, title, and interest throughout the world in, to and under the said improvements, and the said applications and all provisional applications relating thereto, and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and it hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said ASSIGNEES, their successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND KVL DOES HEREBY sell, assign, transfer, and convey to ASSIGNEES, their successors, legal representatives, and assigns all claims for damages and all remedies arising out of any

violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEES, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of the said Letters Patent before or after issuance.

AND KVL HEREBY covenants and agrees that it will communicate to the said ASSIGNEES, their successors, legal representatives and assigns, any facts known to it respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEES, their successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

AND NOTHING IN THIS Assignment and Confirmation of Assignment affects or changes the ongoing ownership, by DJF, of its portion of the of the entire right, title, and interest, in and to the said improvements and the said Applications, which DJF previously received by assignment and which DJF previously shared jointly with KVL. Accordingly, DJF remains a joint owner of the entire right, title, and interest, in and to the said improvements and the said Applications with the said ASSIGNEES named herein.

SIGNED this 22 day of DECEMBER 200 6.

  
\_\_\_\_\_  
for KVL

Attested by:



Application No.: 10/561,363  
Filing Date: December 19, 2005

**COPY**  
**Do Not**  
**Record**

**PATENT**  
Client Code: HOIB2.001APC  
Page 1 of 3

### ASSIGNMENT and CONFIRMATION OF ASSIGNMENT

WHEREAS, WE, Derek Byrne, an Irish citizen, residing at Tagensvej 88, 3.th, DK-2200 København N, Denmark; Allan Roepstorff, a Danish citizen, residing at Damhus Boulevard 88, DK-2610 Rødovre, Denmark; Stig Milan Thamsborg, a Danish citizen, residing at Ledreborg Allé 20, DK-2820 Gentofte, Denmark; and Helena Mejer, a Danish citizen, residing at Norsvej 9, 2 tv, DK-1916 Frederiksberg C, Denmark (collectively hereinafter "ASSIGNORS" became, by way of assignment, joint owners with Danmarks JordbrugsForskning (Danish Institute of Agricultural Sciences) (hereinafter DJF), a Danish public sector research institution, with its principal place of business at Blichers Allé, P.O. Box 50, DK-8830 Tjele, Denmark; of patent rights as described in certain patent applications titled: METHODOLOGIES FOR IMPROVING THE QUALITY OF MEAT, HEALTH STATUS OF ANIMALS AND IMPACT ON ENVIRONMENT; namely, an application for Letters Patent in the United States, Application Serial No. 10/561,363, filed on December 19, 2005; an International Application (PCT/EP2004/050355, filed on March 24, 2004); Danish Provisional Applications (PA 2003 00453, filed March 25, 2003, and PA 2003 01154, filed August 11, 2003); and a U.S. Provisional Application (60/494,082, filed August 12, 2003);

AND WHEREAS, the ASSIGNORS, together with Laurits Lydehøj Hansen, a Danish citizen, residing at Vingevej 33, Ørum, DK-8830 Tjele, Denmark, (collectively hereinafter "ASSIGNEES"), desire to jointly share in that portion of the right, title, and interest, heretofore pertaining to the ASSIGNORS, in and to the said improvements and the said Applications, thereby collectively becoming joint owners, with DJF, of the entire right, title, and interest, in and to the said improvements and the said Applications:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to the ASSIGNORS in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, the ASSIGNORS do hereby acknowledge and now confirm that on ~~insert date of assignment from these four inventors to Laurits Hansen~~ <sup>May 16, 2006</sup> they sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEES, their successors, legal representatives and assigns, their entire portion of the right, title, and interest throughout the world in, to and under the said improvements, and the said applications and all provisional applications relating thereto, and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and they hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said ASSIGNEES, their successors, legal representatives and assigns, in accordance with the terms of this instrument.

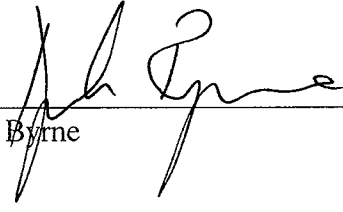
AND THE ASSIGNORS DO HEREBY sell, assign, transfer, and convey to ASSIGNEES, their successors, legal representatives, and assigns all claims for damages and all remedies arising out of any

violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEES, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of the said Letters Patent before or after issuance.

AND THE ASSIGNORS HEREBY covenants and agrees that they will communicate to the said ASSIGNEES, their successors, legal representatives and assigns, any facts known to them respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEES, their successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

AND NOTHING IN THIS Assignment and Confirmation of Assignment affects or changes the ongoing ownership, by DJF, of its portion of the of the entire right, title, and interest, in and to the said improvements and the said Applications, which DJF previously received by assignment and which DJF previously shared jointly with the ASSIGNORS. Accordingly, DJF remains a joint owner of the entire right, title, and interest, in and to the said improvements and the said Applications with the said ASSIGNEES named herein.

SIGNED this 22 day of DECEMBER 2006.

  
\_\_\_\_\_  
Derek Byrne

Attested by:

SIGNED this \_\_\_\_\_ day of \_\_\_\_\_ 200\_\_\_\_.

\_\_\_\_\_  
Allan Roepstorff

Attested by:

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SIGNED this \_\_\_\_\_ day of \_\_\_\_\_ 200\_\_\_\_.

\_\_\_\_\_  
Derek Byrne

Attested by:

SIGNED this 22 day of DECEMBER 2006.

  
\_\_\_\_\_  
Allan Roepstorff

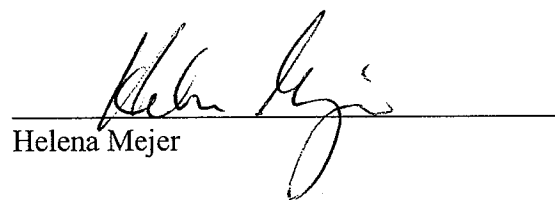
Attested by:

SIGNED this 22 day of DECEMBER 2006.

  
\_\_\_\_\_  
Stig Milan Thamsborg

Attested by:

SIGNED this 22 day of DECEMBER 2006.

  
\_\_\_\_\_  
Helena Mejer

Attested by:

Assignment C

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**PATENT**

Application No.: 10/561,363  
Filing Date: December 19, 2005

Client Code: HOIB2.001APC  
Page 1 of 3

**ASSIGNMENT and CONFIRMATION OF ASSIGNMENT**

WHEREAS, WE, Derek Byrne, an Irish citizen, residing at Tagensvej 88, 3.th, DK-2200 København N, Denmark; Allan Roepstorff, a Danish citizen, residing at Damhus Boulevard 88, DK-2610 Rødovre, Denmark; Stig Milan Thamsborg, a Danish citizen, residing at Ledreborg Allé 20, DK-2820 Gentofte, Denmark; Helena Mejer, a Danish citizen, residing at Norsvej 9, 2 tv, DK-1916 Frederiksberg C, Denmark; and Laurits Lydehøj Hansen, a Danish citizen, residing at Vingevej 33, Ørum, DK-8830 Tjele, Denmark (collectively hereinafter "ASSIGNORS") became, through a series of assignments, joint owners with Danmarks JordbrugsForskning (Danish Institute of Agricultural Sciences, hereinafter "ASSIGNEE"), a Danish public sector research institution, with its principal place of business at Blichers Allé, P.O. Box 50, DK-8830 Tjele, Denmark; of patent rights as described in certain patent applications titled: METHODOLOGIES FOR IMPROVING THE QUALITY OF MEAT, HEALTH STATUS OF ANIMALS AND IMPACT ON ENVIRONMENT; namely, an application for Letters Patent in the United States, Application Serial No. 10/561,363, filed on December 19, 2005; an International Application (PCT/EP2004/050355, filed on March 24, 2004); Danish Provisional Applications (PA 2003 00453, filed March 25, 2003, and PA 2003 01154, filed August 11, 2003); and a U.S. Provisional Application (60/494,082, filed August 12, 2003);

AND WHEREAS, the ASSIGNORS desire to convey to ASSIGNEE the entire portion of the right, title, and interest, heretofore pertaining to the ASSIGNORS, in and to the said improvements and the said Applications, thereby making ASSIGNEE the sole owner of the entire right, title, and interest, in and to the said improvements and the said Applications:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to the ASSIGNORS in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, the ASSIGNORS do hereby acknowledge and now confirm that on ~~insert date of assignment from the five inventors to DJF~~ <sup>November 15, 2006</sup> they sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto ASSIGNEE, its successors, legal representatives and assigns, their entire portion of the right, title, and interest throughout the world in, to and under the said improvements, and the said applications and all provisional applications relating thereto, and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and they hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to DJF, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND THE ASSIGNORS DO HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to

ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of the said Letters Patent before or after issuance.

AND THE ASSIGNORS HEREBY covenant and agree that they will communicate to ASSIGNEE, its successors, legal representatives and assigns, any facts known to them respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

SIGNED this 27 day of DECEMBER 2006.

  
\_\_\_\_\_  
Derek Byrne

Attested by:

SIGNED this \_\_\_\_\_ day of \_\_\_\_\_ 200\_\_\_\_.

\_\_\_\_\_  
Allan Roepstorff

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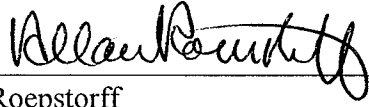
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\_\_\_\_\_  
Derek Byrne

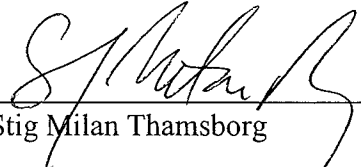
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Allan Roepstorff

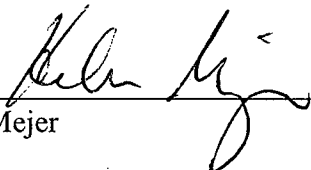
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Laurits Lydehøj Hansen

Attested by:



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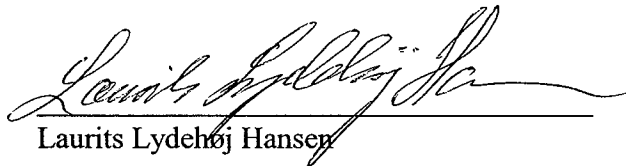
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Page 3 of 3

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Assignment D  
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**PATENT**  
Client Code: HOIB2.001APC  
Page 1 of 2

### ASSIGNMENT and CONFIRMATION OF ASSIGNMENT

WHEREAS, Danmarks JordbrugsForskning (Danish Institute of Agricultural Sciences, hereinafter "ASSIGNOR"), a Danish public sector research institution, with its principal place of business at Blichers Allé, P.O. Box 50, DK-8830 Tjele, Denmark, became, through a series of assignments, the sole owner of patent rights as described in certain patent applications titled: METHODOLOGIES FOR IMPROVING THE QUALITY OF MEAT, HEALTH STATUS OF ANIMALS AND IMPACT ON ENVIRONMENT; namely, an application for Letters Patent in the United States, Application Serial No. 10/561,363, filed on December 19, 2005; an International Application (PCT/EP2004/050355, filed on March 24, 2004); Danish Provisional Applications (PA 2003 00453, filed March 25, 2003, and PA 2003 01154, filed August 11, 2003); and a U.S. Provisional Application (60/494,082, filed August 12, 2003);

AND WHEREAS, Aarhus Universitet (University of Aarhus, hereinafter "ASSIGNEE"), a Danish educational institution, with its principal place of business at Nordre Ringgade 1, DK-8000 Århus C, Denmark, desires to acquire the entire right, title, and interest, in and to the said improvements and the said Applications:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to ASSIGNOR in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR does hereby acknowledge and now confirms that on ~~insert date of DJF to Aarhus assignment~~ <sup>December 20, 2006</sup> it sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns its entire portion of the right, title, and interest throughout the world in, to and under the said improvements, and the said applications and all provisional applications relating thereto, and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and it hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of the said Letters Patent before or after issuance.

AND ASSIGNOR HEREBY covenants and agrees that it will communicate to the said ASSIGNEE, its successors, legal representatives and assigns any facts known to it respecting said

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Client Code: HOIB2.001APC  
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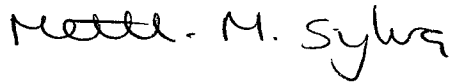
improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

SIGNED this 28 day of DECEMBER 2006.



for ASSIGNOR, Danmarks JordbrugsForskning

Attested by:



Assignment E  
3203017  
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